

Date: Fri, 17 Sep 93 04:30:32 PDT  
From: Ham-Space Mailing List and Newsgroup <ham-space@ucsd.edu>  
Errors-To: Ham-Space-Errors@UCSD.Edu  
Reply-To: Ham-Space@UCSD.Edu  
Precedence: Bulk  
Subject: Ham-Space Digest V93 #31  
To: Ham-Space

Ham-Space Digest                        Fri, 17 Sep 93                        Volume 93 : Issue 31

Today's Topics:

    9600 baud fsk tone pair frequencies, wat are they?  
        DSP-12 users on Internet  
        Guide to the Personal Radio Newsgroups  
        InstantTrack/QRZ! Mudslinging  
        InstantTrack on QRZ Cdrom?  
        PB.EXE on a 4.77mhz XT?  
    Two-Line Orbital Element Set: Space Shuttle (2 msgs)

Send Replies or notes for publication to: <Ham-Space@UCSD.Edu>  
Send subscription requests to: <Ham-Space-REQUEST@UCSD.Edu>  
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Ham-Space Digest are available  
(by FTP only) from UCSD.Edu in directory "mailarchives/ham-space".

We trust that readers are intelligent enough to realize that all text  
herein consists of personal comments and does not represent the official  
policies or positions of any party. Your mileage may vary. So there.

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Date: 15 Sep 1993 13:44:26 -0500  
From: swrinde!cs.utexas.edu!not-for-mail@network.ucsd.edu  
Subject: 9600 baud fsk tone pair frequencies, wat are they?  
To: ham-space@ucsd.edu

Does anybody know the tone pair frequencies for 9600 baud fsk? I am going to  
modify a couple of radios for 9600 baud and would like to feed the pure tones  
through on the bench and see what works best. Also any tips about 9600 baud  
modifications would be greatly appreciated. And one more thing, does anyone  
know what frequencies are used for terrestrial 9600 baud fsk packet?

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Date: 15 Sep 93 10:06:32 GMT  
From: ogicse!hp-cv!sdd.hp.com!cs.utexas.edu!not-for-mail@network.ucsd.edu

Subject: DSP-12 users on Internet  
To: ham-space@ucsd.edu

Are there any DSP-12 users ou there on the internet? I know there is a DSP-12 users group but the only contact I have for most of them is a phone number. I suspect that a good contact would be on the satellites themselves however I am not to the point of having reliable satellite communications. I do have internet access. If enough users are interested I \*might\* volunteer to manage a mailing list.

Bruce. N4USH. bmm1@freenet.fsu.edu

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Date: Wed, 15 Sep 1993 11:00:58 GMT  
From: nevada.edu!news.unomaha.edu!news@uunet.uu.net  
Subject: Guide to the Personal Radio Newsgroups  
To: ham-space@ucsd.edu

Posted-By: auto-faq 2.4  
Archive-name: radio/personal-intro  
Revision: 1.4 06/30/93 12:04:14  
Changes: new rec.radio.amateur.\* newsgroups, cs.utexas.edu gateway

(Note: The following is reprinted with the permission of the author.)

This message describes the rec.radio.amateur.\*, rec.radio.cb, rec.radio.info, and rec.radio.swap newsgroups. It is intended to serve as a guide for the new reader on what to find where. Questions and comments may be directed to the author, Jay Maynard, K5ZC, by Internet electronic mail at jmaynard@oac.hsc.uth.tmc.edu. This message was last changed on 30 June 1993 to add the groups created during the latest reorganization vote and the description of the cs.utexas.edu gateway.

#### History

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Way back when, before there was a Usenet, the Internet hosted a mailing list for hams, called (appropriately enough) INFO-HAMS. Ham radio discussions were held on the mailing list, and sent to the mailboxes of those who had signed up for it. When the Usenet software was created, and net news as we now know it was developed, a newsgroup was created for hams: net.ham-radio. The mailing list and the newsgroup were gatewayed together, eventually.

As the net grew, and as packet radio came into vogue, packet discussion began to dominate other topics in the group and on the list. This resulted in the logical solution: a group was created to hold the packet discussion, and

another corresponding mailing list was created as well: net.ham-radio.packet and PACKET-RADIO, respectively.

These two groups served for several years, and went through Usenet's Great Renaming essentially unchanged, moving from net.ham-radio[.packet] to rec.ham-radio[.packet]. Readership and volume grew with the rest of the network.

The INFO-HAMS mailing list was originally run from a US Army computer at White Sands Missile Range, SIMTEL20. There were few problems with this arrangement, but one was that the system was not supposed to be used for commercial purposes. Since one of hams' favorite pastimes is swapping gear, it was natural for hams to post messages about equipment for sale to INFO-HAMS/rec.ham-radio. This ran afoul of SIMTEL20's no-commercial-use restriction, and after some argument, a group was created specifically for messages like that: rec.ham-radio.swap. This group wasn't gatewayed to a mailing list, thus avoiding problems.

While all this was happening, other folks wanted to discuss other aspects of the world of radio than the personal communications services. Those folks created the rec.radio.shortwave and rec.radio.noncomm newsgroups, and established the precedent of the rec.radio.\* hierarchy, which in turn reflected Usenet's overall trend toward a hierarchical name structure.

The debate between proponents of a no-code ham radio license and its opponents grew fierce and voluminous in late 1989 and 1990. Eventually, both sides grew weary of the debate, and those who had not been involved even more so. A proposal for a newsgroup dedicated to licensing issues failed. A later proposal was made for a group that would cover the many recurring legal issues discussions. During discussion of the latter proposal, it became clear that it would be desirable to fit the ham radio groups under the rec.radio.\* hierarchy. A full-blown reorganization was passed by Usenet voters in January 1991, leading to the overall structure we now use.

After the reorganization, more and more regular information postings began to appear, and were spread out across the various groups in rec.radio.\*. Taking the successful example of the news.answers group, where informational postings from across the net are sent, the group rec.radio.info was created in December, 1992, with Mark Salyzyn, VE6MGS, initially serving as moderator.

In January, 1993, many users started complaining about the volume in rec.radio.amateur.misc. This led to a discussion about a second reorganization, which sparked the creation of a mailing list by Ian Kluft, KD6EUI. This list, which was eventually joined by many of the most prolific posters to the ham radio groups, came up with a proposal to add 11 groups to the rec.radio.amateur hierarchy in April 1993. The subsequent vote, held in May and early June, approved the creation of five groups: rec.radio.amateur.digital.misc (to replace .packet), .equipment, .homebrew,

.antenna, and .space.

#### The Current Groups

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I can hear you asking, "OK, so this is all neat history, but what does it have to do with me now?" The answer is that the history of each group has a direct bearing on what the group is used for, and what's considered appropriate where.

The easy one is rec.radio.amateur.misc. It is what rec.ham-radio was renamed to during the reorganization. Any message that's not more appropriate in one of the other groups belongs here, from contesting to DX to ragchewing on VHF to information on becoming a ham.

The group rec.radio.amateur.digital.misc is for discussions related to (surprise!) digital amateur radio. This doesn't have to be the common two-meter AX.25 variety of packet radio, either; some of the most knowledgeable folks in radio digital communications can be found here, and anything in the general area is welcome. The name was changed to emphasize this, and to encourage discussion not only of other text-based digital modes, such as AMTOR, RTTY, and Clover, but things like digital voice and video as well. The former group, rec.radio.amateur.packet, has not been removed as of this writing, but it is obsolete, and you should use .digital.misc instead. The group has the .misc as part of the name to allow further specialization if the users wish it, such as .digital.tcp-ip.

The swap group is now rec.radio.swap. This recognizes a fact that became evident shortly after the original group was formed: Hams don't just swap ham radio gear, and other folks besides hams swap ham equipment. If you have radio equipment, or test gear, or computer stuff that hams would be interested in, here's the place. Equipment wanted postings belong here too. Discussions about the equipment generally don't; if you wish to discuss a particular posting with the buyer, email is a much better way to do it, and the other groups, especially .equipment and .homebrew, are the place for public discussions. There is now a regular posting with information on how to go about buying and selling items in rec.radio.swap; please refer to it before you post there.

The first reorganization added two groups to the list, one of which is rec.radio.amateur.policy. This group was created as a place for all the discussions that seem to drag on interminably about the many rules, regulations, legalities, and policies that surround amateur radio, both existing and proposed. The neverending no-code debate goes here, as does the New Jersey scanner law, the legality of ordering a pizza on the autopatch, what a bunch of rotten no-goodniks the local frequency coordinating body is, and so on.

The other added group is rec.radio.cb. This is the place for all discussion

about the Citizens' Band radio service. Such discussions have been very inflammatory in rec.ham-radio in the past; please do not cross-post to both rec.radio.cb and rec.radio.amateur.\* unless the topic is genuinely of interest to both hams and CBers - and very few topics are.

The rec.radio.info group is just what its name implies: it's the place where informational messages from across rec.radio.\* may be found, regardless of where else they're posted. As of this writing, information posted to the group includes Cary Oler's daily solar propagation bulletins, ARRL bulletins, the Frequently Asked Questions files for the various groups, and radio modification instructions. This group is moderated, so you cannot post to it directly; if you try, even if your message is crossposted to one of the other groups, your message will be mailed to the moderator, who is currently Mark Salyzyn, VE6MGS. The email address for submissions to the group is rec-radio-info@ve6mgs.ampr.ab.ca. Inquiries and other administrivia should be directed to rec-radio-request@ve6mgs.ampr.ab.ca. For more information about rec.radio.info, consult the introduction and posting guidelines that are regularly posted to that newsgroup.

The groups rec.radio.amateur.antenna, .equipment, .homebrew, and .space are for more specialized areas of ham radio: discussions about antennas, commercially-made equipment, homebrewing, and amateur radio space operations. The .equipment group is not the place for buying or selling equipment; that's what rec.radio.swap is for. Similarly, the .space group is specifically about amateur radio in space, such as the OSCAR program and SAREX, the Shuttle Amateur Radio EXperiment; other groups cover other aspects of satellites and space. Homebrewing isn't about making your own alcoholic beverages at home (that's rec.crafts.brewing), but rather construction of radio and electronic equipment by the amateur experimenter.

The rec.radio.amateur.misc, .packet, and .policy groups, and the rec.radio.info group, are available by Internet electronic mail in digest format; send a mail message containing "help" on a line by itself to listserv@ucsd.edu for instructions on how to use the mail server. The rec.radio.swap group is not available for reading by electronic mail. At this writing, the most recently added groups are also not available for reading by electronic mail, although that may change.

All of the groups can be posted to by electronic mail, though, by using a gateway at the University of Texas at Austin. To post a message this way, change the name of the group you wish to post to by replacing all of the '.'s with '-'s - for example, rec.radio.swap becomes rec-radio-swap - and send to that name@cs.utexas.edu (rec-radio-swap@cs.utexas.edu, for example). You may crosspost by including multiple addresses as Cc: entries (but see below). This gateway's continued availability is at the pleasure of the admins at UT-Austin, and is subject to going away at any time - and especially if forgeries and other net.abuses become a problem. You have been warned.

## A Few Words on Crossposting

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Please do not crosspost messages to two or more groups unless there is genuine interest in both groups in the topic being discussed, and when you do, please include a header line of the form "Followup-To: group.name" in your article's headers (before the first blank line). This will cause followups to your article to go to the group listed in the Followup-To: line. If you wish to have replies to go to you by email, rather than be posted, use the word "poster" instead of the name of a group. Such a line appears in the headers of this article.

One of the few examples of productive cross-posting is with the rec.radio.info newsgroup. To provide a filtered presentation of information articles, while still maintaining visibility in their home newsgroups, the moderator strongly encourages cross-posting. All information articles should be submitted to the rec.radio.info moderator so that he may simultaneously cross-post your information to the appropriate newsgroups. Most newsreaders will only present the article once, and network bandwidth is conserved since only one article is propagated. If you make regular informational postings, and have made arrangements with the moderator to post directly to the group, please cross-post as appropriate.

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Jay Maynard, EMT-P, K5ZC, PP-ASEL | Never ascribe to malice that which can  
jmaynard@oac.hsc.uth.tmc.edu | adequately be explained by stupidity.  
"If my car ran OS/2, it'd be there by now" -- bumper sticker  
GCS d++ p+ c++ l+ m+- s/++ g++ w++ t+ r

--  
73, Paul W. Schleck, KD3FU

pschleck@unomaha.edu

Celebrating 60 years of the Univ. of Maryland ARA - W3EAX (1933-1993)

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Date: Wed, 15 Sep 1993 17:49:30 GMT  
From: news.service.uci.edu!ttinews!calvin.tti.com!cole@network.ucsd.edu  
Subject: InstantTrack/QRZ! Mudslinging  
To: ham-space@ucsd.edu

The mud-slinging over the inclusion of InstantTrack on the QRZ! CD-ROM really disappoints me. On one hand, if InstantTrack is really on the QRZ! CD-ROM (and I haven't bothered to check mine), that would clearly be a violation of Franklin Antonio's copyright. On the other hand, most of us observed Fred Lloyd

putting together the CD-ROM and saw his appeals for non-copyrighted software. I'm sure that if InstantTrack was included it was indeed inadvertant.

But what's done is done. I'm an AMSAT Life Member. I spent LOTS of hours calculating and printing the Project Oscar orbital schedules for the amateur satellite community before the era of the PC. I bought InstantTrack as soon as it came out and I think it's probably the best satellite tracking program ever written. But I refuse to participate in a pissing contest over a simple mistake and I definitely won't support any participation by AMSAT.

Responsible, ethical people pay for the software they use. They don't steal it. Others seem to find a way to get a copy, no matter hard or easy it is to do so. I can't believe AMSAT's income stream will be affected much either way.

I believe Franklin, Fred, and the people at Walnut Creek CD-ROM are all reasonable people, and I hope they can reach a positive resolution. The rest of us should just butt out.

Randy Cole  
KN6W

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Date: Tue, 14 Sep 93 17:14:28 CDT  
From: dog.ee.lbl.gov!agate!tcsi.tcs.com!iat.holonet.net!vulcan!  
kd4cim@network.ucsd.edu  
Subject: InstantTrack on QRZ Cdrom?  
To: ham-space@ucsd.edu

eac@world.std.com (Eric A Cottrell) writes:

> I picked up the March 1993 edition of QRZ and it\_track.exe was not on it.  
> I assume there is a newer edition out?  
>

Interesting, I have a March 1993 and it is most definitely on it. There is no identifying edition number or anything else to designate a release number or anything. Perhaps, Walnut Creek recut the March 1993 CDROM and removed the copyrighted software in response to Franklin Antonio's very justified complaint. It is also obvious that there are versions with IT floating around in the distribution channels. I got the QRZ CD from one of the vendors at the Huntsville Hamfest in August. (and apparently trashed the receipt - if there was one - oh well.)

BTW, I have my own copy of IT from AMSAT-NA. The callbook was the only reason to get the CD. The software on it is not very good. The SIMTEL CDROM is a better buy to get freeware/shareware. And the SAM database from RT-Systems probably a better way of getting the callbook, since they issue frequent updates, it fits on about 20 meg of HD space since it is compressed and the search and list programs are far better than those on QRZ.

de Jerry

BHM AmprNet - kd4cim@kd4cim.ampr.org [44.100.113.19]  
Packet Radio - KD4CIM @ KD4CIM.AL.USA.NA  
Internet - kd4cim@vulcan.com

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Date: 15 Sep 1993 13:54:02 -0500  
From: cs.utexas.edu!not-for-mail@uunet.uu.net  
Subject: PB.EXE on a 4.77mhz XT?  
To: ham-space@ucsd.edu

I recently upgraded PB.EXE from the older version to the 4-30-92 version. The old version ran fine but the new version locks up my computer requiring a reboot. I suspect (as does Jeff Ward) that it is because I am running it on a 4.77mhz, 8088 machine. Has anyone else had failure or success running PB.EXE on an XT class computer?

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Date: Wed, 15 Sep 1993 16:50:39 MDT  
From: tribune.usask.ca!kakwa.ucs.ualberta.ca!alberta!fantom!crs-sys!ersys!adec23!  
ve6mgs!usenet@decwrl.dec.com  
Subject: Two-Line Orbital Element Set: Space Shuttle  
To: ham-space@ucsd.edu

The most current orbital elements from the NORAD two-line element sets are carried on the Celestial BBS, (513) 427-0674, and are updated daily (when possible). Documentation and tracking software are also available on this system. As a service to the satellite user community, the most current elements for the current shuttle mission are provided below. The Celestial BBS may be accessed 24 hours/day at 300, 1200, 2400, 4800, or 9600 bps using 8 data bits, 1 stop bit, no parity.

Element sets (also updated daily), shuttle elements, and some documentation

and software are also available via anonymous ftp from archive.afit.af.mil (129.92.1.66) in the directory pub/space.

STS 51

1	22795U	93	58	A	93258.24999999	.00036093	00000-0	86022-4	0	126
2	22795	28.4632	338.9585	0022971	349.6218	99.8392	15.94634668			436
1993 058B										
1	22796U	93	58	B	93258.41285176	-.00018167	00000-0	-35758-1	0	54
2	22796	15.3562	357.0380	7465464	0.0501	359.7520	2.00225257			60
1993 058D										
1	22797U	93	58	D	93257.40822743	-.00000217	00000-0	99999-4	0	34
2	22797	15.4804	356.5146	7472297	359.9513	359.9406	2.01097297			41
1993 058C										
1	22798U	93	58	C	93255.84373842	.00021892	00000-0	79894-4	0	13
2	22798	28.4606	357.0089	0022166	244.8563	57.6075	15.86464053			54
1993 058E										
1	22799U	93	58	E	93256.85766689	.02916751	00000-0	48785-2	0	35
2	22799	28.4305	349.5217	0016725	274.5421	87.5965	15.96195614			210
1993 058F										
1	22800U	93	58	F	93258.29415584	.00044033	00000-0	90668-4	0	24
2	22800	28.6263	338.5311	0043635	194.3319	170.6107	15.95958911			449

Date: Thu, 16 Sep 1993 21:02:38 GMT

From: iris.mbvlab.wpafb.af.mil!blackbird.afit.af.mil!tkelso@uunet.uu.net

Subject: Two-Line Orbital Element Set: Space Shuttle

To: ham-space@ucsd.edu

The most current orbital elements from the NORAD two-line element sets are carried on the Celestial BBS, (513) 427-0674, and are updated daily (when possible). Documentation and tracking software are also available on this system. As a service to the satellite user community, the most current elements for the current shuttle mission are provided below. The Celestial BBS may be accessed 24 hours/day at 300, 1200, 2400, 4800, or 9600 bps using 8 data bits, 1 stop bit, no parity.

Element sets (also updated daily), shuttle elements, and some documentation and software are also available via anonymous ftp from archive.afit.af.mil (129.92.1.66) in the directory pub/space.

STS 51

1 22795U 93 58 A 93258.24999999 .00036093 00000-0 86022-4 0 126  
2 22795 28.4632 338.9585 0022971 349.6218 99.8392 15.94634668 436  
1993 058B

1	22796U	93 58 B	93258.41301780	.00010105	00000-0	20444-1	0	74
2	22796	15.3397 356.0646	7466373	0.7797	359.8777	2.00214609		68
1993 058D								
1	22797U	93 58 D	93258.40273469	-.00000211	00000-0	99999-4	0	45
2	22797	15.4726 356.1292	7472131	0.6354	359.9052	2.01097246		65
1993 058C								
1	22798U	93 58 C	93255.84373842	.00021892	00000-0	79894-4	0	13
2	22798	28.4606 357.0089	0022166	244.8563	57.6075	15.86464053		54
1993 058E								
1	22799U	93 58 E	93258.54732251	.00066415	00000-0	87570-4	0	51
2	22799	28.4693 336.5981	0027182	186.7528	206.9421	16.04512373		483
1993 058F								
1	22800U	93 58 F	93258.54329956	.00068451	00000-0	90668-4	0	30
2	22800	28.3842 336.5980	0096042	155.6091	207.5980	15.96608222		487

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Dr TS Kelso

[tkelso@afit.af.mil](mailto:tkelso@afit.af.mil)

Assistant Professor of Space Operations  
Air Force Institute of Technology

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End of Ham-Space Digest V93 #31

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